



EARTH OBSERVING SYSTEM (EOS) ARCHIVE AND ACCESS ENHANCEMENT TO CLASS



The National Requirement: The Nation requires a central repository to access data from select NASA Earth Observing System (EOS) research satellites, operational satellites and *in-situ* sensors.

NOAA's Response: Through the NOAA National Data Centers, NOAA's Satellite and Information Service provides archive and access of long-term environmental data. An enhancement of NOAA's Comprehensive Large Array-data Stewardship System (CLASS) will incorporate data from EOS research missions into its long-term archive. By providing efficient, secure and cost-effective archive of and access to global NASA EOS data, NOAA will continue to support key challenges identified by the Climate Change Science Program such as improving understanding of the role of land-ocean-atmosphere exchanges in climate change. The launch of the National Polar-orbiting Operational Environmental Satellite System (NPOESS) Preparatory Mission (NPP) will provide continuity of the observations from the NASA EOS mission. By enhancing CLASS to include EOS data, the Nation will effectively have one central repository of environmental satellite data spanning over 30 years of observations. Upon completion CLASS will include data from satellite observations including POES, GOES, GOES- R, NPP, NPOES, and EOS missions (Aqua, Terra, and Aura). This maximizes the Nation's investment in more than a billion dollars in satellite data access and archive systems to improve our understanding of the Earth and changes that are occurring.

Partners and Customers: Partners include NASA and NOAA Offices. Customers of EOS data include the full range of Federal, state, and local governments; environmental and agricultural interests; public utilities; research and academic community; insurance, legal, human health and transportation sectors; and homeland security.

Financing: The FY2006 Budget requests **\$1.0 million** to continue to develop the EOS Archive Enhancement to CLASS.

For additional information: www.saa.noaa.gov and www.nesdis.noaa.gov

